

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321519

Luminaire Tested: **GAN-SA5B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18371 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

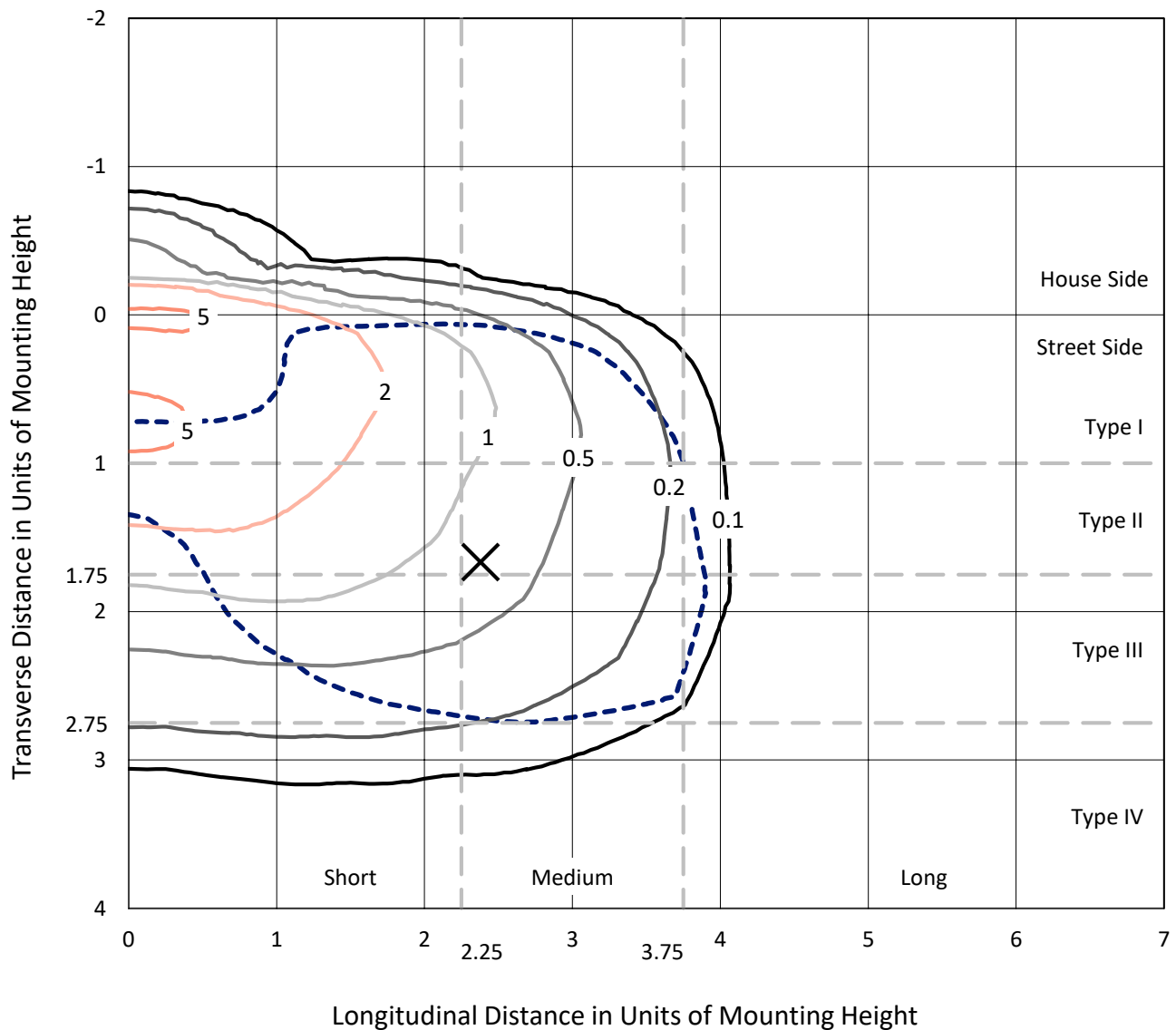
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321519
 CATALOG NUMBER: GAN-SA5B-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

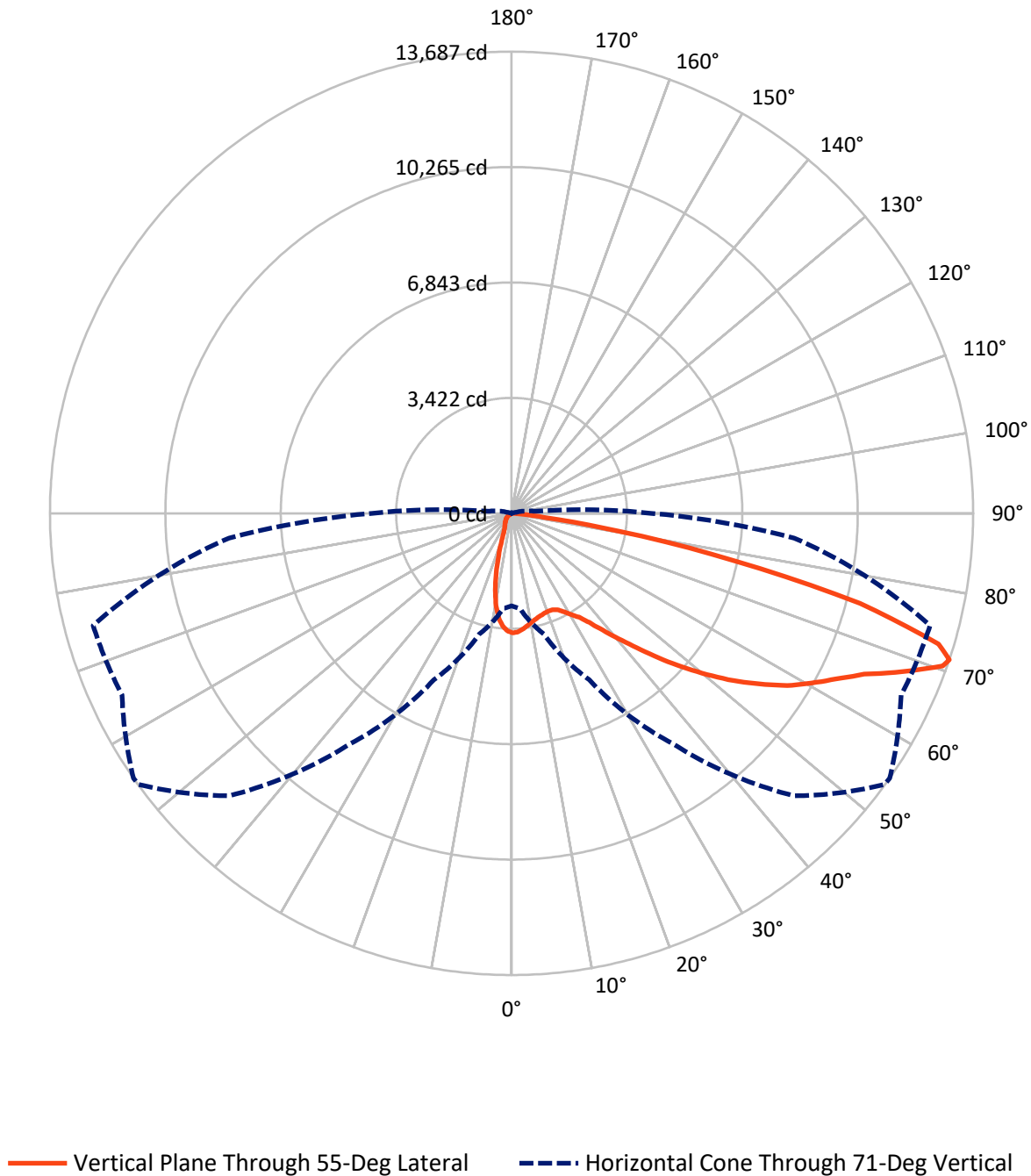
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P321519
CATALOG NUMBER: GAN-SA5B-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321519

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1454.5	0.0	1454.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16916.5	0.0	16916.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	18371.0	0.0	18371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	1.6
10°-20°	682.0	3.7
20°-30°	1095.9	6.0
30°-40°	1862.1	10.1
40°-50°	2890.2	15.7
50°-60°	3885.8	21.2
60°-70°	4753.6	25.9
70°-80°	2779.3	15.1
80°-90°	120.1	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18371.0	100.0
0°-180°	18371.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321519

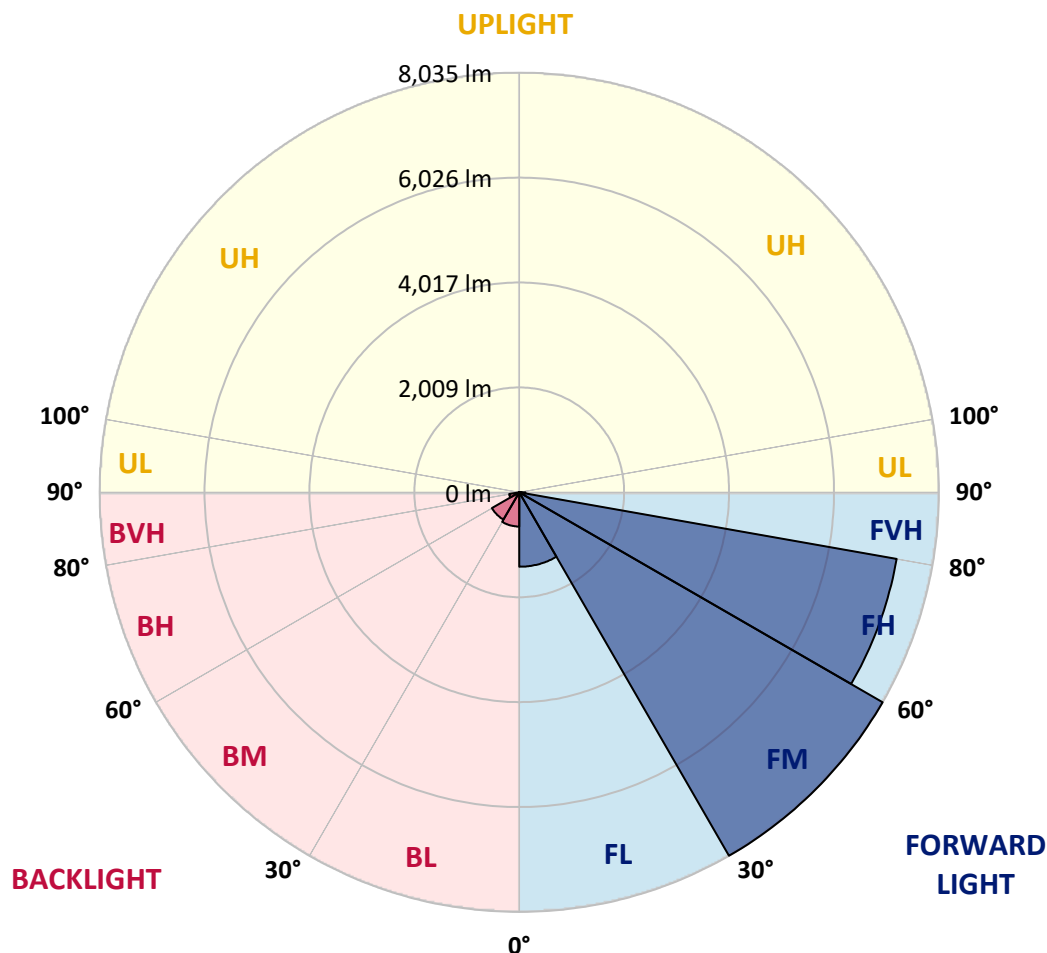
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.3	7.8			
FM	(30°-60°)	8034.9	43.7			
FH	(60°-80°)	7338.0	39.9			G3/7500
FVH	(80°-90°)	118.2	0.6			G2/225
BL	(0°-30°)	654.7	3.6	B2/1000		
BM	(30°-60°)	603.1	3.3	B1/1000		
BH	(60°-80°)	194.9	1.1	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P321519

CATALOG NUMBER: GAN-SA5B-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9
2.5°	3439.0	3443.1	3457.9	3464.5	3480.2	3506.6	3519.8	3520.6	3542.1	3550.3	3556.9
5°	3195.6	3220.4	3245.1	3271.5	3319.4	3382.9	3445.6	3451.4	3520.6	3571.8	3599.0
7.5°	2986.1	3008.4	3038.1	3080.1	3147.8	3247.6	3352.4	3364.7	3495.9	3612.2	3673.2
10°	2770.8	2789.0	2831.9	2893.7	2986.9	3120.6	3261.6	3282.2	3473.6	3666.6	3773.9
12.5°	2540.7	2551.4	2603.4	2692.4	2829.4	2999.3	3184.9	3212.1	3459.6	3729.3	3892.7
15°	2365.8	2370.7	2420.2	2512.6	2669.4	2890.4	3125.5	3158.5	3462.9	3804.4	4022.2
17.5°	2321.2	2323.7	2350.1	2413.6	2552.2	2793.1	3078.5	3118.9	3472.8	3877.8	4152.5
20°	2501.9	2484.6	2457.4	2447.5	2506.8	2734.5	3050.5	3095.8	3486.0	3943.0	4269.6
22.5°	2997.7	2946.5	2833.5	2682.6	2591.0	2738.6	3057.9	3103.2	3528.1	4023.0	4404.9
25°	3733.5	3662.5	3470.3	3173.4	2887.9	2857.4	3119.7	3165.9	3609.7	4118.7	4534.4
27.5°	4570.7	4500.6	4265.5	3841.5	3354.8	3092.5	3261.6	3304.5	3731.0	4203.7	4633.4
30°	5372.5	5352.7	5075.6	4593.8	3942.2	3473.6	3444.8	3481.0	3820.9	4254.8	4711.8
32.5°	6052.2	6020.9	5798.2	5329.6	4614.4	3931.4	3660.0	3670.8	3888.5	4320.8	4814.1
35°	6682.5	6643.7	6448.2	6005.2	5304.1	4490.7	3991.7	3976.0	4036.2	4453.6	4962.6
37.5°	7232.7	7268.1	7051.2	6629.7	5922.7	5072.3	4438.7	4391.7	4267.2	4669.7	5177.9
40°	7692.9	7692.9	7579.9	7228.5	6590.9	5673.6	4944.4	4882.5	4614.4	5003.0	5450.9
42.5°	7858.8	7894.2	7936.3	7737.5	7188.9	6298.9	5507.8	5443.5	5103.6	5475.6	5795.7
45°	7868.6	7924.7	8140.0	8139.2	7729.2	6920.0	6143.0	6112.5	5730.5	6082.8	6223.0
47.5°	7729.2	7799.4	8154.1	8355.3	8157.4	7498.3	6837.5	6799.6	6467.2	6826.8	6670.1
50°	7513.9	7591.5	8003.9	8440.3	8448.5	8001.5	7569.2	7512.3	7278.0	7677.3	7132.0
52.5°	7128.7	7278.9	7869.5	8460.1	8639.9	8436.2	8265.4	8240.7	8185.4	8496.4	7499.9
55°	6304.7	6471.3	7532.1	8466.7	8817.3	8821.4	8917.9	8924.5	9035.9	9261.9	7773.8
57.5°	5915.3	6009.3	6943.1	8498.0	9080.4	9258.6	9582.8	9633.9	9806.3	9988.6	8086.4
60°	5670.3	5781.7	6652.8	8455.1	9493.7	9831.9	10199.0	10216.3	10401.1	10738.5	8509.6
62.5°	5474.8	5584.5	6469.6	8290.2	9958.1	10521.5	10801.1	10802.8	10941.4	11631.8	8990.5
65°	4992.2	5084.6	6099.3	8104.6	10265.0	11203.7	11500.7	11489.9	11602.9	12573.8	9549.0
67.5°	4294.4	4365.3	5342.8	7400.9	10149.5	11824.0	12556.5	12521.0	12384.1	13388.0	9768.4
70°	3320.2	3345.8	4211.1	6167.7	9067.2	12062.4	13576.9	13558.8	12863.4	13242.0	8964.1
71°	2744.4	2828.6	3711.2	5443.5	8342.1	11842.2	13675.9	13686.6	12742.9	12844.4	8410.6
72.5°	1593.7	1665.5	2690.0	4180.6	7082.5	10923.2	13162.8	13240.3	12180.4	11683.0	7184.0
75°	341.5	365.4	997.3	2023.5	3896.0	7655.8	10389.5	10665.9	9927.6	7947.8	4329.9
77.5°	237.6	256.5	427.3	918.1	1287.7	3783.0	6454.0	6765.8	5931.0	2986.9	1385.8
80°	188.1	209.5	333.3	453.7	348.1	1220.0	3023.2	3213.8	1978.1	666.5	233.4
82.5°	104.8	124.6	259.8	245.0	133.6	231.8	846.3	956.9	395.9	134.5	55.3
85°	30.5	37.1	167.5	178.2	56.9	44.5	144.4	179.0	75.1	35.5	24.7
87.5°	0.0	0.0	80.8	68.5	16.5	6.6	13.2	14.8	14.8	14.8	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P321519

CATALOG NUMBER: GAN-SA5B-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9
2.5°	3556.9	3562.7	3542.1	3514.9	3486.0	3450.5	3413.4	3384.5	3383.7	3369.7	3355.7
5°	3600.7	3597.4	3540.4	3453.8	3351.5	3245.1	3143.7	3029.0	2991.1	2944.0	2928.4
7.5°	3681.5	3658.4	3538.0	3348.2	3123.9	2901.1	2671.0	2439.2	2340.2	2251.1	2235.5
10°	3783.0	3739.2	3522.3	3189.9	2778.2	2367.4	2020.2	1705.1	1566.5	1460.1	1455.1
12.5°	3888.5	3821.7	3478.6	2950.6	2325.4	1747.9	1347.9	1037.7	922.2	848.0	854.6
15°	3999.1	3899.3	3384.5	2628.1	1809.8	1186.2	828.2	645.9	599.7	580.7	585.7
17.5°	4112.1	3952.9	3253.4	2239.6	1300.9	765.5	573.3	522.2	522.2	526.3	527.9
20°	4210.3	3981.8	3060.4	1804.0	881.8	557.6	501.5	494.1	498.2	504.8	505.7
22.5°	4307.6	3983.4	2808.8	1362.7	617.0	488.3	477.6	474.3	476.8	484.2	485.0
25°	4386.8	3963.6	2493.7	969.2	492.5	460.3	455.3	453.7	455.3	464.4	464.4
27.5°	4418.9	3891.8	2109.3	681.4	441.3	428.9	427.3	428.9	431.4	438.0	438.8
30°	4422.2	3766.5	1690.2	493.3	400.1	386.9	390.2	395.9	393.5	391.8	393.5
32.5°	4430.5	3621.3	1281.9	405.8	365.4	344.8	340.7	340.7	330.8	325.0	321.7
35°	4457.7	3450.5	929.7	364.6	330.0	306.0	290.4	272.2	253.2	243.3	240.9
37.5°	4500.6	3271.5	665.7	337.4	298.6	271.4	241.7	209.5	182.3	174.9	174.9
40°	4579.0	3086.7	492.5	315.9	273.9	240.0	195.5	153.4	128.7	124.6	124.6
42.5°	4702.7	2892.1	392.6	297.0	252.4	207.9	149.3	111.4	93.2	90.7	89.9
45°	4831.4	2677.6	343.2	278.8	229.3	170.8	110.5	82.5	71.8	69.3	69.3
47.5°	4960.1	2449.1	319.2	261.5	207.0	132.8	82.5	65.2	60.2	60.2	61.0
50°	5069.0	2210.7	301.9	242.5	178.2	100.6	65.2	55.3	53.6	56.9	57.7
52.5°	5096.2	1976.4	280.5	218.6	142.7	76.7	53.6	48.7	48.7	48.7	48.7
55°	5079.7	1795.0	252.4	188.9	105.6	61.0	46.2	42.9	42.1	42.1	42.1
57.5°	5135.8	1687.7	202.1	146.8	75.9	49.5	40.4	37.9	36.3	35.5	35.5
60°	5248.8	1617.6	144.4	105.6	56.9	41.2	34.6	32.2	29.7	28.0	28.0
62.5°	5398.9	1556.6	107.2	78.4	43.7	33.0	28.9	26.4	23.1	21.4	21.4
65°	5514.4	1447.7	81.7	58.6	33.0	26.4	22.3	21.4	16.5	14.8	14.0
67.5°	5337.9	1208.5	66.0	42.9	24.7	20.6	17.3	16.5	9.9	8.2	8.2
70°	4578.2	841.4	52.8	31.3	18.1	16.5	14.0	10.7	7.4	6.6	6.6
71°	4151.7	702.8	47.8	26.4	15.7	15.7	13.2	9.1	6.6	5.8	5.8
72.5°	3448.9	499.1	40.4	20.6	14.0	16.5	14.0	8.2	6.6	5.8	4.9
75°	2002.0	208.7	28.0	14.0	10.7	19.8	18.1	7.4	4.9	4.1	4.1
77.5°	602.2	76.7	15.7	9.1	8.2	17.3	20.6	6.6	2.5	0.8	0.8
80°	109.7	33.0	9.9	5.8	5.8	10.7	15.7	3.3	0.0	0.0	0.0
82.5°	38.8	16.5	5.8	3.3	2.5	4.9	7.4	0.0	0.0	0.0	0.0
85°	22.3	11.5	3.3	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)